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 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

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18 and 14 and 11

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USPT	18 and 14 and 11	39	<u>L13</u>
USPT	18 and 14 and 110	740	<u>L12</u>
USPT	110 and 17	29	<u>L11</u>
USPT	infect\$5 or anti\$10	252616	<u>L10</u>
USPT	18 and 17	11	<u>L9</u>
USPT	salmonella or campylobacter or clostridium	10217	<u>L8</u>
USPT	11 and 13 and 14 and 15	42	<u>L7</u>
USPT	11 and 12 and 13 and 14 and 15	0	<u>L6</u>
USPT	soybean\$5 or rapeseed\$6 or canola\$5 or fishmeal\$5 or meatmeal\$5	31465	<u>L5</u>
USPT	animal feed\$5	7119	<u>L4</u>
USPT	wheat\$5	35290	<u>L3</u>
USPT	antibacteria\$5	18943	<u>L2</u>
USPT	\$5glucanase or xylanase	1277	<u>L1</u>

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FILE 'HOME' ENTERED AT 11:26:06 ON 06 JUL 2000

=> index bioscience, chemistry

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

FILE 'PAPERCHEM' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

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ENTRY	SESSION
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FULL ESTIMATED COST

INDEX 'ADISALERTS, ADISINSIGHT, AGRICOLA, AIDSLINE, ANABSTR, AQUASCI,

BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO,
CABA,
CANCERLIT, CAPLUS, CEABA, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU,
DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 11:26:29 ON 06
JUL 2000

79 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> s ?glucanase or xylanase

1* FILE ADISALERTS
0* FILE ADISINSIGHT
1118* FILE AGRICOLA
6 FILE AIDSLINE
39* FILE ANABSTR
5 FILES SEARCHED...
47* FILE AQUASCI
495* FILE BIOBUSINESS
39* FILE BIOCOMMERCE
4283 FILE BIOSIS
962* FILE BIOTECHABS
962* FILE BIOTECHDS
1414 FILE BIOTECHNO
1455* FILE CABA
37 FILE CANCERLIT
5983 FILE CAPLUS
365* FILE CEABA
16 FILES SEARCHED...
0* FILE CEN
12 FILE CIN
56* FILE CONFSCI
38* FILE CROPB
165* FILE CROPU
22* FILE DDFB
14* FILE DDFU
1096* FILE DGENE
22* FILE DRUGB
0* FILE DRUGLAUNCH
0* FILE DRUGMONOG2
0* FILE DRUGNL
25* FILE DRUGU
4* FILE EMBAL
30 FILES SEARCHED...
1449 FILE EMBASE
618* FILE ESBIODBASE
0* FILE FOMAD
61* FILE FOREGE
34 FILES SEARCHED...
240* FILE FROSTI
838* FILE FSTA
1129 FILE GENBANK
3* FILE HEALSAFE
164* FILE IFIPAT
387* FILE JICST-EPLUS
2* FILE KOSMET
1122* FILE LIFESCI
1547 FILE MEDLINE
2* FILE NIOSHTIC
44 FILES SEARCHED...
24* FILE NTIS
22* FILE OCEAN
24* FILE PROMT
3273 FILE SCISEARCH

253 FILE TOXINE
 760 FILE TOXIT
 940 FILE USPATFULL
 555 FILE WPIDS
 555 FILE WPINDEX
 1* FILE ALUMINIUM
 1* FILE APILIT
 1* FILE APILIT2
 123* FILE BABS
 22 FILE CAOLD
 6* FILE CBNB
 0* FILE CERAB
 139* FILE COMPENDEX
 2* FILE INSPEC
 1* FILE INSPHYS
 2* FILE INVESTEXT
 0* FILE IPA
 9* FILE KKF
 0* FILE METADEX
 17 FILE NAPRALERT
 210* FILE PAPERCHEM2
 3* FILE RAPRA
 73 FILES SEARCHED...
 3* FILE RUSSCI
 1* FILE TULSA
 0* FILE TULSA2
 9* FILE VTB
 3* FILE WSCA

65 FILES HAVE ONE OR MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L1 QUE ?GLUCANASE OR XYLANSE

=> s antibacteria?

16236 FILE ADISALERTS
 597 FILE ADISINSIGHT
 2999 FILE AGRICOLA
 190 FILE AIDSLINE
 153 FILE ANABSTR
 571 FILE AQUASCI
 7597 FILE BIOBUSINESS
 131 FILE BIOCOMMERCE
 108315 FILE BIOSIS
 952 FILE BIOTECHABS
 952 FILE BIOTECHDS
 3109 FILE BIOTECHNO
 6956 FILE CABA
 1436 FILE CANCERLIT
 46007 FILE CAPLUS
 449 FILE CEABA
 91 FILE CEN
 701 FILE CIN
 580 FILE CONFSCI
 37 FILE CROPB
 299 FILE CROPU
 1453 FILE DDFB
 7842 FILE DDFU
 14883 FILE DGENE
 1453 FILE DRUGB
 595 FILE DRUGLAUNCH
 10 FILE DRUGMONOG2
 196 FILE DRUGNL
 9506 FILE DRUGU
 29 FILES SEARCHED...
 130 FILE EMBAL

21766 FILE EM...E
 2288 FILE ESTROBASE
 1 FILE FOMAD
 1114 FILE FROSTI
 1108 FILE FSTA
 297 FILE GENBANK
 135 FILE HEALSAFE
 6346 FILE IFIPAT
 23389 FILE JICST-EPLUS
 102 FILE KOSMET
 12710 FILE LIFESCI
 15810 FILE MEDLINE
 194 FILE NIOSHTIC
 335 FILE NTIS
 279 FILE OCEAN
 758 FILE PHAR
 8 FILE PHIC
 2755 FILE PHIN
 5687 FILE PROMT
 12805 FILE SCISEARCH
 9231 FILE TOXLINE
 11441 FILE TOXLIT
 18680 FILE USPATFULL
 22065 FILE WPIDS
 22065 FILE WPINDEX
 6 FILE ALUMINIUM
 20 FILE APILIT
 20 FILE APILIT2
 2289 FILE BABS
 2026 FILE CAOLD
 1063 FILE CBNB
 62 FILES SEARCHED...
 5 FILE CERAB
 323 FILE COMPENDEX
 44 FILE INSPEC
 16 FILE INSPHYS
 4389 FILE INVESTEXT
 3050 FILE IPA
 59 FILE KKF
 24 FILE METADEX
 6710 FILE NAPRALERT
 66 FILE PAPERCHEM2
 230 FILE RAPRA
 23 FILE RUSSCI
 6 FILE TULSA
 2 FILE TULSA2
 412 FILE USAN
 6 FILE VTB
 214 FILE WSCA

78 FILES HAVE ONE OR MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L2 QUE ANTIBACTERIA?

=> s animal feed?

3 FILE ADISALERTS
 3019 FILE AGRICOLA
 10 FILE AIDSLINE
 394 FILE ANABSTR
 306 FILE AQUASCI
 3381 FILE BIOBUSINESS
 334 FILE BIOCOMMERCE
 7166 FILE BIOSIS
 915 FILE BIOTECHABS
 915 FILE BIOTECHDS

248 FILE BILCHNO
 6437 FILE CABR
 358 FILE CANCERLIT
 4999 FILE CAPLUS
 502 FILE CEABA
 16 FILES SEARCHED...
 95 FILE CEN
 1074 FILE CIN
 70 FILE CONFSCI
 18 FILE CROPB
 76 FILE CROPU
 67 FILE DDFB
 28 FILE DDFU
 2688 FILE DGENE
 67 FILE DRUGB
 32 FILE DRUGU
 7 FILE EMBAL
 768 FILE EMBASE
 266 FILE ESBIODBASE
 298 FILE FOMAD
 3 FILE FOREGE
 1853 FILE FROSTI
 35 FILES SEARCHED...
 1691 FILE FSTA
 12 FILE GENBANK
 87 FILE HEALSAFE
 2253 FILE IFIPAT
 117 FILE JICST-EPLUS
 6 FILE KOSMET
 518 FILE LIFESCI
 19473 FILE MEDLINE
 174 FILE NIOSHTIC
 632 FILE NTIS
 71 FILE OCEAN
 25 FILE PHIC
 2631 FILE PHIN
 7525 FILE PROMT
 1599 FILE SCISEARCH
 18162 FILE TOXLINE
 52 FILES SEARCHED...
 950 FILE TOXLIT
 6756 FILE USPATFULL
 7872 FILE WPIDS
 7872 FILE WPINDEX
 56 FILES SEARCHED...
 173 FILE APILIT
 173 FILE APILIT2
 12 FILE BABS
 345 FILE CAOLD
 2366 FILE CBNB
 2 FILE CERAB
 453 FILE COMPENDEX
 67 FILE INSPEC
 1 FILE INSPHYS
 8263 FILE INVESTEXT
 55 FILE IPA
 9 FILE METADEX
 9 FILE NAPRALERT
 211 FILE PAPERCHEM2
 48 FILE RAPRA
 73 FILES SEARCHED...
 5 FILE RUSSCI
 2 FILE TULSA
 56 FILE VTB
 6 FILE WSCA

L3 QUE ANIMAL FEED?

=> s wheat?

45	FILE ADISALERTS
71177	FILE AGRICOLA
42	FILE AIDSLINE
1248	FILE ANABSTR
696	FILE AQUASCI
22009	FILE BIOBUSINESS
464	FILE BIOCOMMERCE
97293	FILE BIOSIS
3660	FILE BIOTECHABS
3660	FILE BIOTECHDS
7640	FILE BIOTECHNO
139182	FILE CABA
1940	FILE CANCERLIT
77051	FILE CAPLUS
1160	FILE CEABA
112	FILE CEN
1099	FILE CIN
2900	FILE CONFSCI
11382	FILE CROPB
17709	FILE CROPU
488	FILE DDFB
265	FILE DDFU
3879	FILE DGENE
488	FILE DRUGB
109	FILE DRUGLAUNCH
76	FILE DRUGMONOG2
27 FILES SEARCHED...	
7	FILE DRUGNL
470	FILE DRUGU
102	FILE EMBAL
13337	FILE EMBASE
10232	FILE ESBIODBASE
1862	FILE FOMAD
531	FILE FOREGE
11318	FILE FROSTI
23733	FILE FSTA
4067	FILE GENBANK
346	FILE HEALSAFE
4301	FILE IFIPAT
6665	FILE JICST-EPLUS
94	FILE KOSMET
14576	FILE LIFESCI
17594	FILE MEDLINE
405	FILE NIOSHTIC
4033	FILE NTIS
127	FILE OCEAN
3	FILE PHAR
41	FILE PHIC
5648	FILE PHIN
35734	FILE PROMT
57680	FILE SCISEARCH
11499	FILE TOXLINE
17340	FILE TOXLIT
29356	FILE USPATFULL
15541	FILE WPIDS
55 FILES SEARCHED...	
15541	FILE WPINDEX
22	FILE ALUMINIUM
57 FILES SEARCHED...	
336	FILE APILIT

336 FILE A IT2
547 FILE BALS
7010 FILE CAOLD
1808 FILE CBNB
7 FILE CERAB
3624 FILE COMPENDEX
1582 FILE INSPEC
65 FILES SEARCHED...
177 FILE INSPHYS
41113 FILE INVESTEXT
89 FILE IPA
81 FILE KKF
60 FILE METADEX
252 FILE NAPRALERT
1553 FILE PAPERCHEM2
151 FILE RAPRA
193 FILE RUSSCI
93 FILE TULSA
48 FILE TULSA2
2 FILE USAN
53 FILE VTB
51 FILE WSCA

78 FILES HAVE ONE OR MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L4 QUE WHEAT?

=> s 11 and 12 and 13 and 14

0* FILE ADISALERTS
0* FILE ADISINSIGHT
0* FILE AGRICOLA
0* FILE ANABSTR
0* FILE AQUASCI
0* FILE BIOBUSINESS
0* FILE BIOCOMMERCE
0* FILE BIOTECHABS
0* FILE BIOTECHDS
0* FILE CABA
0* FILE CEABA
0* FILE CEN
0* FILE CONFSCI
0* FILE CROPB
0* FILE CROPU
0* FILE DDFB
22 FILES SEARCHED...
0* FILE DDFU
0* FILE DGENE
0* FILE DRUGB
0* FILE DRUGLAUNCH
0* FILE DRUGMONOG2
0* FILE DRUGNL
0* FILE DRUGU
0* FILE EMBAL
0* FILE ESBIODBASE
0* FILE FOMAD
0* FILE FOREGE
0* FILE FROSTI
0* FILE FSTA
0* FILE HEALSAFE
0* FILE IFIPAT
0* FILE JICST-EPLUS
0* FILE KOSMET
0* FILE LIFESCI
0* FILE NIOSHTIC
0* FILE NTIS

45 FILES SEARCHED.

0* FILE OCEAN
0* FILE PROMT

56 FILES SEARCHED...

0* FILE ALUMINIUM
0* FILE APILIT
0* FILE APILIT2
0* FILE BABS
0* FILE CBNB
0* FILE CERAB
0* FILE COMPENDEX
0* FILE INSPEC
0* FILE INSPHYS
0* FILE INVESTEXT
0* FILE IPA
0* FILE KKF
0* FILE METADEX
0* FILE PAPERCHEM2
0* FILE RAPRA
0* FILE RUSSCI
0* FILE TULSA
0* FILE TULSA2
0* FILE VTB

78 FILES SEARCHED...

0* FILE WSCA

0 FILES HAVE ONE OR MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L5 QUE L1 AND L2 AND L3 AND L4

=> s l1 and l3 and l4

0* FILE ADISALERTS
0* FILE ADISINSIGHT
0* FILE AGRICOLA
0* FILE ANABSTR
0* FILE AQUASCI
1* FILE BIOBUSINESS
0* FILE BIOCOMMERCE
6 FILE BIOSIS
3* FILE BIOTECHABS
3* FILE BIOTECHDS
0* FILE CABA
9 FILE CAPLUS
0* FILE CEABA
0* FILE CEN
0* FILE CONFSCI
0* FILE CROPB

20 FILES SEARCHED...

0* FILE CROPU
0* FILE DDFB
0* FILE DDFU
6* FILE DGENE
0* FILE DRUGB
0* FILE DRUGLAUNCH
0* FILE DRUGMONOG2
0* FILE DRUGNL
0* FILE DRUGU
0* FILE EMBAL
0* FILE ESBIODBASE
0* FILE FOMAD
0* FILE FOREGE
0* FILE FROSTI
1* FILE FSTA
0* FILE HEALSAFE
5* FILE IFIPAT

0* FILE J...-EPLUS
 0* FILE K...MET
 0* FILE LIFESCI
 4 FILE MEDLINE
 0* FILE NIOSHTIC
 1* FILE NTIS
 45 FILES SEARCHED...
 0* FILE OCEAN
 0* FILE PROMT
 2 FILE SCISEARCH
 2 FILE TOXLINE
 72 FILE USPATFULL
 2 FILE WPIDS
 2 FILE WPINDEX
 56 FILES SEARCHED...
 0* FILE ALUMINIUM
 0* FILE APILIT
 0* FILE APILIT2
 0* FILE BABS
 0* FILE CBNB
 0* FILE CERAB
 0* FILE COMPENDEX
 0* FILE INSPEC
 0* FILE INSPHYS
 0* FILE INVESTEXT
 0* FILE IPA
 0* FILE KKF
 0* FILE METADEX
 0* FILE PAPERCHEM2
 0* FILE RAPRA
 0* FILE RUSSCI
 0* FILE TULSA
 0* FILE TULSA2
 76 FILES SEARCHED...
 0* FILE VTB
 0* FILE WSCA

15 FILES HAVE ONE OR MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L6 QUE L1 AND L3 AND L4

=> s soybean? or rapeseed? or canola? or fishmeal? or meatmeal?

83 FILE ADISALERTS
 7 FILE ADISINSIGHT
 40963 FILE AGRICOLA
 21 FILE AIDSLINE
 497 FILE ANABSTR
 1271 FILE AQUASCI
 16426 FILE BIOBUSINESS
 479 FILE BIOCOMMERCE
 58797 FILE BIOSIS
 4963 FILE BIOTECHABS
 4963 FILE BIOTECHDS
 4697 FILE BIOTECHNO
 37116 FILE CABA
 1102 FILE CANCERLIT
 75309 FILE CAPLUS
 611 FILE CEABA
 203 FILE CEN
 3161 FILE CIN
 2440 FILE CONFSCI
 4686 FILE CROPB
 11175 FILE CROPU
 413 FILE DDFB
 769 FILE DDFU

5,817,500 5,612,055

4408 FILE D...
24 FILES SEARCHED...
413 FILE DRUGB
20 FILE DRUGLAUNCH
3 FILE DRUGNL
1070 FILE DRUGU
85 FILE EMBAL
10656 FILE EMBASE
5738 FILE ESBIODASE
747 FILE FOMAD
82 FILE FOREGE
5871 FILE FROSTI
17234 FILE FSTA
93532 FILE GENBANK
189 FILE HEALSAFE
4776 FILE IFIPAT
8946 FILE JICST-EPLUS
65 FILE KOSMET
7818 FILE LIFESCI
14442 FILE MEDLINE
185 FILE NIOSHTIC
2468 FILE NTIS
319 FILE OCEAN
10 FILE PHAR
34 FILE PHIC
3026 FILE PHIN

49 FILES SEARCHED...
17852 FILE PROMT
36289 FILE SCISEARCH
8753 FILE TOXLINE
12537 FILE TOXLIT
31353 FILE USPATFULL
12561 FILE WPIDS
12561 FILE WPINDEX
8 FILE ALUMINIUM
782 FILE APILIT
782 FILE APILIT2
714 FILE BABS
3668 FILE CAOLD
1526 FILE CBNB
2775 FILE COMPENDEX
344 FILE INSPEC
81 FILE INSPHYS
15704 FILE INVESTEXT
482 FILE IPA
68 FILE KKF
14 FILE METADEX
375 FILE NAPRALERT
281 FILE PAPERCHEM2
255 FILE RAPRA
14 FILE RUSSCI
7 FILE TULSA
1 FILE TULSA2
4 FILE USAN

77 FILES SEARCHED...

22 FILE VTB
178 FILE WSCA

77 FILES HAVE ONE OR MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L7 QUE SOYBEAN? OR RAPESEED? OR CANOLA? OR FISHMEAL? OR MEATMEAL?

=> s 16 and 17

0* FILE ADISALERTS
0* FILE ADISINSIGHT

0* FILE AMCOLA
0* FILE AMSTR
0* FILE AQUASCI
0* FILE BIOBUSINESS
0* FILE BIOCOMMERCE
0* FILE BIOTECHABS
0* FILE BIOTECHDS
0* FILE CABA
4 FILE CAPLUS
15 FILES SEARCHED...
0* FILE CEABA
0* FILE CEN
0* FILE CONFSCI
0* FILE CROPB
0* FILE CROPU
0* FILE DDFB
0* FILE DDFU
0* FILE DGENE
0* FILE DRUGB
0* FILE DRUGLAUNCH
0* FILE DRUGMONOG2
0* FILE DRUGNL
0* FILE DRUGU
0* FILE EMBAL
0* FILE ESBIODASE
0* FILE FOMAD
0* FILE FOREGE
0* FILE FROSTI
0* FILE FSTA
36 FILES SEARCHED...
0* FILE HEALSAFE
1* FILE IFIPAT
0* FILE JICST-EPLUS
0* FILE KOSMET
0* FILE LIFESCI
0* FILE NIOSHTIC
1* FILE NTIS
0* FILE OCEAN
0* FILE PROMT
26 FILE USPATFULL
54 FILES SEARCHED...
1 FILE WPIDS
1 FILE WPINDEX
56 FILES SEARCHED...
0* FILE ALUMINIUM
0* FILE APILIT
0* FILE APILIT2
0* FILE BABS
0* FILE CBNB
0* FILE CERAB
0* FILE COMPENDEX
0* FILE INSPEC
0* FILE INSPHYS
0* FILE INVESTEXT
0* FILE IPA
0* FILE KKF
0* FILE METADEX
0* FILE PAPERCHEM2
0* FILE RAPRA
0* FILE RUSSCI
0* FILE TULSA
75 FILES SEARCHED...
0* FILE TULSA2
0* FILE VTB
0* FILE WSCA

6 FILES HAVE ONE MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L8 QUE L6 AND L7

=> d rank

F1	26	USPATFULL
F2	4	CAPLUS
F3	1	WPIDS
F4	1	WPINDEX
F5	1*	IFIPAT
F6	1*	NTIS

=> file f1-f6

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	12.15	12.30

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FILE 'NTIS' ENTERED AT 11:42:40 ON 06 JUL 2000
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=> s 18

3 FILES SEARCHED...
LEFT TRUNCATION IGNORED FOR '?GLUCANASE' FOR FILE 'IFIPAT'
LEFT TRUNCATION IGNORED FOR '?GLUCANASE' FOR FILE 'NTIS'
L9 33 L8
Left truncation is not valid in the specified search field in the
specified file. The term has been searched without left truncation.
Examples: '?TERPEN?' would be searched as 'TERPEN?' and '?FLAVONOID'
would be searched as 'FLAVONOID.'

If you are searching in a field that uses implied proximity, and you
used a truncation symbol after a punctuation mark, the system may
interpret the truncation symbol as being at the beginning of a term.
Implied proximity is used in search fields indexed as single words,
for example, the Basic Index.

=> dup rem 19

PROCESSING COMPLETED FOR L9
L10 32 DUP REM L9 (1 DUPLICATE REMOVED)

=> d 1-32 ab,bib

L10 ANSWER 1 OF 32 US PATFULL

AB Plants are provided with improved resistance against pathogenic fungi. They are genetically transformed with one or more polynucleotides which essentially comprise one or more genes encoding plant and .beta.-1,3-glucanases. Preferred are the intracellular forms of the said

hydrolytic enzymes, especially preferred are those forms which are targeted to the apoplastic space of the plant by virtue of the modification of the genes encoding the said enzymes. Particularly preferred are plants exhibiting a relative overexpression of at least one gene encoding a .beta.-1,3-glucanase.

AN 2000:64717 US PATFULL

TI Process for obtaining fungal resistant plants with recombinant polynucleotides encoding .beta.-1,3-glucanase modified for apoplast targeting

IN Cornelissen, Bernardus Johannes Clemens, Warmond, Netherlands

Melchers, Leo Sjoerd, Leiden, Netherlands

PA Zeneca Mogen B.V., Netherlands (non-U.S. corporation)

PI US 6066491 20000523

AI US 1994-229050 19940418 (8)

RLI Continuation of Ser. No. US 1991-647831, filed on 29 Jan 1991, now abandoned

PRAI NL 1990-222 19900130

DT Utility

EXNAM Primary Examiner: Nelson, Amy J.

LREP Ladas & Parry

CLMN Number of Claims: 7

ECL Exemplary Claim: 1

DRWN 14 Drawing Figure(s); 11 Drawing Page(s)

LN.CNT 2300

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 2 OF 32 US PATFULL

AB This invention describes the germination technology for cereal and oil seeds for the production of enzymes and also describes the production technology of various high activity enzyme products such as phytase

from

the germinated seeds. The invention provides the use of germinated

seeds

after crushing (or pulverizing) as economically viable raw materials

for

mixed feeds and also provides the use of the enzyme products as filler materials for various pharmaceuticals for livestock. The production of enzyme products from seeds are achieved through four steps including selection of seeds, germination, culturing and drying, crushing and packaging.

AN 2000:61248 US PATFULL

TI Production of enzyme products and raw feed materials using grain seeds

IN Bae, Hee Dong, 144-5, Ji-dong, Suwon-City, Kyungki-do, Korea, Republic of

Cheng, Kuo-Joan, 2015-6 Avenue South, Lethbridge, Alberta, Canada T1J 1C2

PI US 6063431 20000516

AI US 1997-889029 19970707 (8)

PRAI KR 1997-1499 19970120

DT Utility

EXNAM Primary Examiner: Sayala, Chhaya D.

LREP Darby & Darby

CLMN Number of Claims: 6

ECL Exemplary Claim: 1

DRWN 2 Drawing Figure(s); 2 Drawing Page(s)

LN.CNT 400

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 3 OF 32 US PATFULL

AB The present invention relates to isolated polypeptides having phytase

activity, the corresponding cloned DNA sequence a process for preparing such polypeptides, and the use thereof for a number of industrial applications. In particular, the invention relates to phytases derived from the phylum Basidiomycota, phytases of certain consensus sequences and fungal 6-phytases.

AN 2000:34189 USPATFULL
TI Phytase polypeptides
IN Lassen, Soren Flensted, Copenhagen, Denmark
Bech, Lisbeth, Hillerod, Denmark
Ohmann, Anders, Bronshoj, Denmark
Breinholt, Jens, Bagsvaerd, Denmark
Fuglsang, Claus Crone, Niva, Denmark
Ostergaard, Peter Rahbek, Virum, Denmark
PA Novo Nordick A/S, Bagsvaerd, Denmark (non-U.S. corporation)
PI US 6039942 20000321
AI US 1997-993359 19971218 (8)
PRAI DK 1996-1480 19961220
DK 1996-1481 19961220
DK 1997-301 19970318
DK 1997-529 19970507
DK 1997-1388 19971201
US 1997-46082 19970509 (60)
US 1997-67304 19971204 (60)
DT Utility
EXNAM Primary Examiner: Wax, Robert A.; Assistant Examiner: Saidha, Tekchand
LREP Zelson, Esq., Steve T.; Green, Esq., Reza
CLMN Number of Claims: 15
ECL Exemplary Claim: 1
DRWN 38 Drawing Figure(s); 38 Drawing Page(s)
LN.CNT 4185
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 4 OF 32 USPATFULL

AB The present invention relates to a method for improving the solubility of vegetable proteins. More specifically, the invention relates to methods for the solubilization of proteins in vegetable protein sources, which methods comprise treating the vegetable protein source with an efficient amount of one or more phytase enzymes, and treating the vegetable protein source with an efficient amount of one or more proteolytic enzymes. In another aspect, the invention provides **animal feed** additives comprising a phytase and one or more proteolytic enzymes.

AN 1999:150703 USPATFULL
TI Method for improving the solubility of vegetable proteins
IN Nielsen, Per Munk, Bagsv.ae butted.rd, Denmark
Knap, Inge Helmer, Bagsv.ae butted.rd, Denmark
PA Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)
PI US 5989600 19991123
WO 9528850 19951102
AI US 1996-716450 19960927 (8)
WO 1995-DK166 19950420
19960927 PCT 371 date
19960927 PCT 102(e) date
PRAI DK 1994-470 19940422
DT Utility
EXNAM Primary Examiner: Eisenschenk, Chris; Assistant Examiner: Zeman, Mary K
LREP Zelson, Esq., Steve T.; Lambiris, Esq., Elias
CLMN Number of Claims: 31
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 631
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 5 OF 32 USPATFULL

AB A method of treating adverse behavior in animals, manifested in

secondary effects such as, in horses, excitability, difficult handling, coprophagy, wood chewing and grasping, or wind sucking, by controlling the formation and accumulation of acid in the hind gut (large intestine) of the gastrointestinal tract that results from the fermentation of excess carbohydrates in the hind gut. This is accomplished by ingesting certain antibiotics with or without combination thereof with certain enzymes. Of specific merit in this invention is the use of virginiamycin to control the passage of carbohydrates into the gastrointestinal tract and the fermentation of these carbohydrates therein. This controls, the accumulation of acid in the digestive tract.

AN 1999:146590 USPATFULL
TI Prevention of adverse behavior, diarrhea, skin disorders and infections of the hind gut associated with acidic conditions in humans and animals by the application of antibiotics
IN Rowe, James Baber, 411 Rockvale Road, Armidale, New South Wales 2350, Australia
PI US 5985891 19991116
WO 9620709 19960711
AI US 1997-860562 19970829 (8)
WO 1995-AU884 19951229
19970829 PCT 371 date
19970829 PCT 102(e) date
PRAI AU 1994-338 19941229
DT Utility
EXNAM Primary Examiner: Cook, Rebecca
LREP Lowe Hauptman Gopstein Gilman & Berner
CLMN Number of Claims: 23
ECL Exemplary Claim: 1
DRWN 6 Drawing Figure(s); 6 Drawing Page(s)
LN.CNT 1301
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 6 OF 32 USPATFULL

AB This invention concerns methods for synthesis and accumulation of fructose polymers in seed, tubers or leaves of transgenic plants by selective expression of a bacterial fructosyltransferase gene.

Selective expression includes coordination of timing, tissue specific expression and especially subcellular location. Successful transformants utilize sucrose to synthesize and accumulate fructan in the vacuole of the cell,

in established crops, without loss of co-products or concern for yield loss due to degradation during maturation, harvest or storage of the plant. Enhanced fructan production will benefit the fructose sweetener industry and add value to grain used for feed.

AN 1999:63448 USPATFULL
TI Accumulation of fructans in plants by targeted expression of bacterial levansucrase
IN Caimi, Perry Gerard, Landenberg, PA, United States
Hershey, Howard Paul, West Chester, PA, United States
Kerr, Phillip S., Urbandale, IA, United States
PA E. I. du Pont de Nemours and Company, Wilmington, DE, United States (U.S. corporation)
PI US 5908975 19990601
WO 9513389 19950518
AI US 1996-640732 19960506 (8)
WO 1994-US12778 19941107
19960506 PCT 371 date
19960506 PCT 102(e) date
RLI Continuation-in-part of Ser. No. US 1993-149689, filed on 9 Nov 1993, now abandoned
DT Utility
EXNAM Primary Examiner: Robinson, Douglas W.; Assistant Examiner: Nelson, Amy J.

CLMN Number of Claims 11
ECL Exemplary Claim 1
DRWN No Drawings
LN.CNT 3534
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 7 OF 32 USPATFULL

AB A purified xylanase produced by *Acidothermus cellulolyticus* is disclosed
having a pH optimum of between about 3.6-4.2 and a molecular weight of between about 50-55 kD as determined by gel filtration. The disclosed xylanase is useful in the bleaching of pulp for the production of paper and in treating feed compositions.

AN 1999:56256 USPATFULL

TI Xylanase from *acidothermus cellulolyticus*

IN Clarkson, Kathleen A., San Francisco, CA, United States
Morgan, Andrew J., Marlborough, United Kingdom
Wang, Zhi C., San Francisco, CA, United States

PA Genencor International, Inc., Rochester, NY, United States (U.S. corporation)

PI US 5902581 19990511

AI US 1995-567382 19951204 (8)

DT Utility

EXNAM Primary Examiner: Weber, Jon P.; Assistant Examiner: Kerr, Janet M.

LREP Anderson, Kirsten A. Genencor International, Inc.

CLMN Number of Claims: 3

ECL Exemplary Claim: 1

DRWN 4 Drawing Figure(s); 2 Drawing Page(s)

LN.CNT 659

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 8 OF 32 USPATFULL

AB The invention provides a purified phytate enzyme derived from *Escherichia coli* B. The enzyme has a molecular weight of about 47.1 kilodaltons and has phytase activity (SEQ ID NO:2). The enzyme can be produced from native or recombinant host cells and can be used to aid in the digestion of phytate where desired. In particular, the phytase of the present invention can be used in **animal feed**.

AN 1999:27459 USPATFULL

TI Phytase

IN Kretz, Keith, San Marcos, CA, United States

PA Diversa Corporation, San Diego, CA, United States (U.S. corporation)

PI US 5876997 19990302

AI US 1997-910798 19970813 (8)

DT Utility

EXNAM Primary Examiner: Wax, Robert A.; Assistant Examiner: Tung, Peter P.

LREP Fish & Richardson P.C.

CLMN Number of Claims: 9

ECL Exemplary Claim: 2

DRWN 4 Drawing Figure(s); 3 Drawing Page(s)

LN.CNT 1172

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 9 OF 32 USPATFULL

AB The present invention relates to a process for reducing the viscosity of a plant material, which process comprises treating the plant material with a xylanase having i) a WSPS per mg protein added which is higher than 0,06, and/or ii) a WSPU per mg protein added which is higher than 15, and/or iii) a specific activity of more than 0,053 FVRU/mg protein. Further, the invention relates to use of a xylanase preparation for separating a plant material, such as **wheat**, into separate useful components as well as processes for such viscosity reduction or separation.

AN 1999:24495 USPATFULL

TI Processing plant material with xylanase
IN Jakobsen, Tina; Sjørsø, Angard, Copenhagen, Denmark
Heldt-Hansen, Hans Peter, Virum, Denmark
Kofod, Lene Venke, Uggerløse, Denmark
Bagger, Christian Lorentz, Frederiksberg, Denmark
Mullertz, Anette, Charlottenlund, Denmark
PA Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)
PI US 5874274 19990223
WO 9523514 19950908
AI US 1996-700546 19960923 (8)
WO 1995-DK82 19950224
19960923 PCT 371 date
19960923 PCT 102(e) date
PRAI DK 1994-247 19940502
DT Utility
EXNAM Primary Examiner: Prats, Francisco
LREP Zelson, Esq., Steve T.; Gregg, Esq., Valeta
CLMN Number of Claims: 11
ECL Exemplary Claim: 1
DRWN 3 Drawing Figure(s); 3 Drawing Page(s)
LN.CNT 963
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 10 OF 32 USPTFULL

AB The present invention relates to a composition capable of reducing or eliminating offensive odors emanating from sites including, animal holding areas, animal waste areas, feed lots, water holding areas, landfills, trash transfer centers and leachate reservoirs. The composition comprises an acid component, or salt thereof, an iron component and a nitrogen source. The invention also relates to a method of odor reduction or elimination based on the above-described composition. Furthermore, the composition utilized in the disclosed methods includes a polysaccharide hydrolase component, and at least one molybdenum, copper and/or gum component.

AN 1999:15473 USPTFULL
TI Methods of odor treatment
IN Jones, Craig, Juno Beach, FL, United States
Bitz, D. Michael, Miami, FL, United States
PA E.K.M.A., Inc., Miami, FL, United States (U.S. corporation)
PI US 5866112 19990202
AI US 1995-476374 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1995-376553, filed on 20 Jan 1995
DT Utility
EXNAM Primary Examiner: Naff, David M.; Assistant Examiner: Ware, Deborah K.
LREP Nixon & Vanderhye P.C.
CLMN Number of Claims: 12
ECL Exemplary Claim: 1
DRWN 3 Drawing Figure(s); 2 Drawing Page(s)
LN.CNT 413
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 11 OF 32 CAPLUS COPYRIGHT 2000 ACS

AB The present invention relates to novel microorganism, *Penicillium funiculosum*, to new enzymes mixt. obtained from it, and nucleic sequences thereto. Xylanase, β -glucanase, feruloyl esterase and other enzymic activities are purified from *P. funiculosum* and characterized, and nucleic acid sequences encoding xylanase C, xylanase BI, feruloyl esterase A, and feruloyl esterase B are provided. The enzyme mixt. can be provided in liq. and powder compns. for use in animal feed for the redn. of phosphorus and ammonia excretion, as well as for improved digestibility of cereals and amino acids.

AN 1999:723223 CAPLUS
DN 131:348532
TI Enzyme mixture from *Penicillium funiculosum*

IN Sabatier, Alain; [REDACTED], Neville Marshall; Haigh, Ni [REDACTED] Paterson
PA Rhone-Poulenc Animal Nutrition S.A., Fr.; Rhodia Chemie
SO PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9957325	A2	19991111	WO 1999-IB856	19990506
	W:	AE, AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	EP 976838	A1	20000202	EP 1998-401101	19980506
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
	AU 9935306	A1	19991123	AU 1999-35306	19990506
	EP 1007743	A2	20000614	EP 1999-917026	19990506
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
PRAI	EP 1998-401101		19980506		
	WO 1999-IB856		19990506		

L10 ANSWER 12 OF 32 CAPLUS COPYRIGHT 2000 ACS

AB Provided is the use of a xylanase or a cellulase for the manuf. of an agent for the treatment and/or prophylaxis of bacterial infection in an animal caused by Salmonella, Campylobacter or Clostridium perfringens.

It is preferred that xylanase is used in combination with **wheat** to form an **animal feed**. Such a diet is particularly effective in controlling Campylobacter and Salmonella in chickens. The use provided by the present invention affords an alternative to antibiotics when controlling bacterial infection in animals. This leads to considerable health, environmental and economic benefits.

AN 1999:81590 CAPLUS

DN 130:152885

TI Use of an enzyme for the manufacture of an agent for controlling bacterial

infection

IN Bedford, Michael R.; Fernandez, Fresie

PA Finnfeeds International Ltd., UK

SO PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9903497	A1	19990128	WO 1998-EP4440	19980716
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	GB 2327345	A1	19990127	GB 1997-15214	19970718
	GB 2327345	B2	19990623		
	AU 9888623	A1	19990210	AU 1998-88623	19980716
	EP 999851	A1	20000517	EP 1998-940239	19980716
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,			

IE, SI, LV, FI, RO
PRAI GB 1997-15214 19970718
WO 1998-EP4440 19980716
RE.CNT 6

RE

- (1) Biofeed Thailand Co Ltd; WO 9729645 A 1997
 - (2) Kohjin Co Ltd; JP 09084529 A 1997
 - (3) Kuznetsova, T; Fermentn Spirt Prom-ST 1985, V6, P38
 - (4) Kuznetsova, T; Lysis of microorganism by enzyme preparations and their components 1986, 9, P329 CAPLUS
 - (5) Mann Stephen Philip; WO 9313786 A 1993
- ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 13 OF 32 USPATFULL

AB Xylanases having high specific activities from Orpinomyces sp. strain PC-2 are provided as well as methods for their purification. DNA sequences encoding these proteins are also provided.

AN 1998:128125 USPATFULL

TI Orpinomyces xylanase proteins and coding sequences

IN Li, Xin-Liang, Athens, GA, United States
Ljungdahl, Lars G., Athens, GA, United States
Chen, Huizhong, Athens, GA, United States

PA University of Georgia Research Foundation, Inc., Athens, GA, United States (U.S. corporation)

PI US 5824533 19981020

AI US 1995-445090 19950519 (8)

DT Utility

EXNAM Primary Examiner: Wax, Robert A.; Assistant Examiner: Mytelka, Daniel S.

LREP Greenlee, Winner and Sullivan, P.C.

CLMN Number of Claims: 32

ECL Exemplary Claim: 1

DRWN 8 Drawing Figure(s); 7 Drawing Page(s)

LN.CNT 1418

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 14 OF 32 USPATFULL

AB The present invention relates to **animal feed** additives, which additives comprise a monocomponent xylanase derived from a strain of Byssoschlamus, Chaetomium, Humicola, Malbranchea, Mucor, Myceliophthora, Paecilomyces, Talaromyces, Thermoascus, or Thielavia.

In other aspects, the invention relates to monocomponent xylanase preparations, DNA constructs, recombinant expression vectors, host cells, and methods of producing monocomponent xylanase preparations.

AN 1998:122255 USPATFULL

TI **Animal feed** additives

IN Hansen, Peter Kamp, Bagsvaerd, Denmark
Wagner, Peter, Bagsvaerd, Denmark
Mullertz, Anette, Bagsvaerd, Denmark
Knap, Inge Helmer, Bagsvaerd, Denmark

PA Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)

PI US 5817500 19981006

AI US 1997-886765 19970701 (8)

PRAI DK 1995-94 19950126

DT Utility

EXNAM Primary Examiner: Wax, Robert A.; Assistant Examiner: Hobbs, Lisa J.

LREP Zelson, Esq., Steve T.; Gregg, Esq., Valeta A.

CLMN Number of Claims: 7

ECL Exemplary Claim: 1

DRWN 7 Drawing Figure(s); 7 Drawing Page(s)

LN.CNT 1610

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 15 OF 32 USPATFULL

AB Fibrolytic enzyme supplements for increasing the digestibility of
legume forages and grain feeds for ruminants, a method of treating legume
forages and grain feeds with fibrolytic enzymes, and feed compositions
consisting of feed materials treated with a mixture of fibrolytic
enzymes are provided. The enzyme supplements do not pre-digest the feed
material but assist in the colonization of feed particles in the rumen
by ruminal microbes. The fibrolytic enzyme supplements consist of
mixtures of cellulase and xylanase in certain preferred ratios and
levels which are dependent on the feed material to be treated. The
cellulase and xylanase are dissolved in a buffer solution and sprayed
onto dry legume forages or grain feeds. The feed material is then
incubated for at least three hours to allow the enzymes to be absorbed
into and adhere to the feed material. The resulting feed compositions
remain stable for at least one year against predigestion. When

cellulase

and xylanase are applied to legume forages and grain feeds in certain
ratios, levels and in accordance with the methods of the present
invention, synergistic effects between the enzymes occur, providing
large improvements in digestibility of feed materials at low enzyme
levels.

AN 1998:19455 USPATFULL
TI Enzyme additives for ruminant feeds
IN Beauchemin, Karen A., Lethbridge, Canada
Rode, Lyle, Lethbridge, Canada
Sewalt, Vincent J., Ardmore, OK, United States
PA Her Majesty the Queen in right of Canada, as represented by the
Department of Agriculture and Agri-Food Canada, Lacombe, Canada
(non-U.S. government)
PI US 5720971 19980224
AI US 1995-497913 19950705 (8)
DT Utility
EXNAM Primary Examiner: Levy, Neil S.
LREP Greenlee, Winner and Sullivan, P.C.
CLMN Number of Claims: 21
ECL Exemplary Claim: 1
DRWN 6 Drawing Figure(s); 3 Drawing Page(s)
LN.CNT 1518
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 16 OF 32 USPATFULL

AB A method of catalyzing in vitro reactions using seeds containing
enhanced amounts of enzymes is disclosed. The method involves adding
transgenic, non-wild type seeds, preferably in a ground form, to a
reaction mixture and allowing the enzymes in the seeds to increase the
rate of reaction. By directly adding the seeds to the reaction mixture
the method provides a solution to the expensive and problematic process
of extracting and purifying the enzyme. Methods of treatment are also
provided whereby a subject lacking a sufficient supply of an enzyme is
administered the enzyme in the form of seeds containing enhanced

amounts

of the enzyme.

AN 1998:12016 USPATFULL
TI Production of enzymes in seeds and their use
IN Van Ooijen, Albert J. J., Voorburg, Netherlands
Rietveld, Krijn, Vlaardingen, Netherlands
Hoekema, Andreas, Oegstgeest, Netherlands
Pen, Jan, Leiden, Netherlands
Sijmons, Peter Christian, Amsterdam, Netherlands
Verwoerd, Teunis Cornelis, Leiden, Netherlands
Quax, Wilhemus Johannes, Voorschoten, Netherlands
PA Mogen International, Netherlands (non-U.S. corporation)
PI US 5714474 19980203
AI US 1996-626554 19960402 (8)
RLI Division of Ser. No. US 1993-146422, filed on 2 Nov 1993, now patented,
Pat. No. US 5543576 which is a continuation-in-part of Ser. No. US

1991-756994, filed on 11 Sep 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-498561, filed on 23 Mar 1990, now abandoned

PRAI EP 1991-200688 19910325
DT Utility
EXNAM Primary Examiner: Rories, Charles C. P.
LREP Morrison & Foerster LLP
CLMN Number of Claims: 10
ECL Exemplary Claim: 1
DRWN 24 Drawing Figure(s); 19 Drawing Page(s)
LN.CNT 1822
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 17 OF 32 USPATFULL

AB The present invention provides plants with a modified taste, solids content and/or texture. The invention also provides methods of obtaining

such plants via transformation with DNA constructs containing genes encoding enzymes capable of degrading plant polysaccharides and optionally additional genes encoding enzymes which are capable of further modifying the degradation products resulting from the first degradation step.

AN 1998:1662 USPATFULL
TI Transgenic plants having a modified carbohydrate content
IN Van Ooyen, Albert Johannes Joseph, Voorburg, Netherlands
Rietveld, Krijn, Vlaardingen, Netherlands
Quax, Wilhelmus Johannes, Voorschoten, Netherlands
Van Den Elzen, Petrus Josephus Maria, Voorhout, Netherlands
Pen, Jan, Leiden, Netherlands
Hoekema, Andreas, Oegstgeest, Netherlands
Sijmons, Peter Christiaan, Amsterdam, Netherlands

PA MOGEN International, N.V., Netherlands (non-U.S. corporation)
PI US 5705375 19980106
AI US 1994-253575 19940603 (8)
RLI Continuation of Ser. No. US 1992-849422, filed on 12 Jun 1992, now abandoned

PRAI EP 1990-202438 19900913
DT Utility
EXNAM Primary Examiner: Rories, Charles C. P.
LREP Morrison & Foerster LLP
CLMN Number of Claims: 17
ECL Exemplary Claim: 1
DRWN 7 Drawing Figure(s); 7 Drawing Page(s)
LN.CNT 1235
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 18 OF 32 USPATFULL

DUPLICATE 1

AB The present invention provides a method of use, and a composition, of a carbohydrase and/or a protease for the manufacture of an agent for the treatment and/or prophylaxis of coccidiosis. The agent can be in the form of a cereal-based **animal feed**. The carbohydrase may be a polysaccharidase such as a xylanase or a cellulase e.g., .beta.-**glucanase**. The agent may include conventional non-enzymic anticoccidial agents.

AN 97:35943 USPATFULL
TI Method and composition for treatment and/or prophylaxis of coccidiosis
IN Bedford, Michael R., Marlborough, United Kingdom
Morgan, Andrew J., Marlborough, United Kingdom
Taylor, Michael A., Addlestone, United Kingdom
Catchpole, Janet, Addlestone, United Kingdom
PA Finnfeeds International Limited, Wiltshire, Great Britain (non-U.S. corporation)
Minister of Agriculture, Fisheries and Food, London, Great Britain (non-U.S. government)
PI US 5624678 19970429
AI US 1995-435946 19950510 (8)

PRAI GB 1994-9336 19940510
DT Utility
EXNAM Primary Examiner: Phelan, D. Gabrielle
LREP Watson Cole Stevens Davis, P.L.L.C.
CLMN Number of Claims: 31
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 551
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 19 OF 32 USPATFULL

AB Plants are provided with improved resistance against pathogenic fungi. They are genetically transformed with one or more polynucleotides which essentially comprise one or more genes encoding plant chitinases and .beta.-1,3-glucanases. Preferred are the intracellular forms of the said hydrolytic enzymes, especially preferred are those forms which are targeted to the apoplastic space of the plant by virtue of the modification of the genes encoding the said enzymes. Particularly preferred are plants exhibiting a relative overexpression of at least one gene encoding a chitinase and one gene encoding a .beta.-1,3-glucanase.

AN 97:86812 USPATFULL

TI Fungal resistant plants, process for obtaining fungal resistant plants and recombinant polynucleotides for use therein

IN Cornelissen, Bernardus J. C., Warmond, Netherlands
Melchers, Leo Sjoerd, Leiden, Netherlands
Meulenhoff, Elisabeth J. S., Amsterdam, Netherlands
van Roekel, Jeroen S. C., Amsterdam, Netherlands
Sela-Buurlage, Marianne Beatrix, Amersfoort, Netherlands
Vloemans, Alexandra Aleida, Leiden, Netherlands
Woloshuk, Charles Peter, Lafayette, IN, United States
Bol, John Ferdinand, Oegstgeest, Netherlands
Linthorst, Hubertus J. M., Leiden, Netherlands

PA MOGEN International, n.v., Leiden, Netherlands (non-U.S. corporation)
Rijksuniversiteit te Leiden, Leiden, Netherlands (non-U.S. corporation)

PI US 5670706 19970923

AI US 1993-47413 19930419 (8)

RLI Division of Ser. No. US 1991-647831, filed on 29 Jan 1991, now abandoned

DT Utility

EXNAM Primary Examiner: Chereskin, Che S.

LREP Morrison & Foerster LLP

CLMN Number of Claims: 30

ECL Exemplary Claim: 1

DRWN 16 Drawing Figure(s); 12 Drawing Page(s)

LN.CNT 2336

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 20 OF 32 USPATFULL

AB The invention comprises two grain conditioners. The first grain conditioner, which is suitable for use on all grains, comprises a pectinase, a protease, a beta-glucanase and an amylase. The second grain conditioner, which is designed for use on easier-to-digest grains, comprises a pectinase, a beta-glucanase, an amylase and a hemicellulase. The invention also comprises animal feeds which comprise a grain which has been conditioned with one of the grain conditioners of the invention designed to be effective on that grain and methods of increasing the weight gain and feed utilization efficiency of an animal comprising feeding the novel animal feeds of the invention to the animal. The invention further comprises a method of conditioning a grain which comprises providing the grain, contacting the grain with one of the grain conditioners of the invention designed to be effective on that grain and incubating the grain and grain conditioner together for at least about 30 minutes. Finally, there is also provided another method

of conditioning grain comprising providing the grain, scarifying the grain, contacting the grain with one of the grain conditioners of the invention designed to be effective on that grain and incubating the grain and grain conditioner for at least about 30 minutes.

AN 97:78175 USPATFULL

TI Enzymatic grain conditioner and methods of using it

IN Tobey, Jr., James F., Roanoke, VA, United States
McGee, J. Stanley, Longmont, CO, United States
Cobb, Charles W., Hereford, TX, United States
Cortner, William, Maysville, MO, United States

PA Loveland Industries, Inc., Greeley, CO, United States (U.S. corporation)
George A. Jeffreys & Co., Salem, VA, United States (U.S. corporation)
Creative Research Laboratories, Inc., Wisner, NE, United States (U.S. corporation)

PI US 5662901 19970902

AI US 1994-294087 19940822 (8)

RLI Division of Ser. No. US 1990-544022, filed on 26 Jun 1990 which is a continuation of Ser. No. US 1989-407726, filed on 14 Sep 1989, now abandoned which is a continuation of Ser. No. US 1987-76114, filed on

21 Jul 1987, now abandoned

DT Utility

EXNAM Primary Examiner: Lankford, Blaine

LREP Burton, Carol W. Holland & Hart LLP

CLMN Number of Claims: 20

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1219

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 21 OF 32 USPATFULL

AB An enzyme feed additive is provided comprising a xylanase, a protease, and optionally a .beta.-**glucanase**. The ratio of the units of xylanase activity per unit amount of the feed additive to the units of .beta.-**glucanase** activity per same unit amount of the feed additive is 1:0-0.25.

Preferably, the xylanase is the low pI xylanase and/or the high pI xylanase obtained from *Trichoderma longibrachiatum*.

Preferably, the protease is a mutant subtilisin comprising a substitution at the amino acid residue position equivalent to tyr+217

of

Bacillus amyloliquefaciens subtilisin with leucine.

AN 97:22502 USPATFULL

TI Enzyme feed additive and **animal feed**

IN Bedford, Michael R., Marlborough, United Kingdom
Morgan, Andrew J., Marlborough, United Kingdom
Clarkson, Kathleen, San Francisco, CA, United States
Schulze, Hagen K., Marlborough, United Kingdom

PA Genecor International, Inc., Rochester, NY, United States (U.S. corporation)

Finnfeeds International Limited, United Kingdom (non-U.S. corporation)

PI US 5612055 19970318

AI US 1995-515610 19950816 (8)

PRAI GB 1994-16841 19940819

DT Utility

EXNAM Primary Examiner: Page, Thurman K.; Assistant Examiner: Howard, Sharon

CLMN Number of Claims: 28

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 905

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 22 OF 32 CAPLUS COPYRIGHT 2000 ACS

AB The present invention relates to **animal feed additives** comprising galactosidase enzymes. More specifically, the invention relates to **animal feed additives** comprising an arabinogalactan endo-1,4-.beta.-galactosidase and/or an arabinogalactan endo-1,3-.beta.-galactosidase.

AN 1997:414188 CAPLUS

DN 127:33317

TI **Animal feed additives**

IN Knap, Inge Helmer; Kofod, Lene Venke; Ohmann, Anders

PA Novo Nordisk A/s, Den.; Knap, Inge, Helmer; Kofod, Lene, Venke; Ohmann, Anders

SO PCT Int. Appl., 20 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9716982	A1	19970515	WO 1996-DK443	19961022
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2234607	AA	19970515	CA 1996-2234607	19961022
	AU 9672797	A1	19970529	AU 1996-72797	19961022
	AU 714602	B2	20000106		
	EP 862371	A1	19980909	EP 1996-934447	19961022
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
	CN 1201373	A	19981209	CN 1996-198103	19961022
	BR 9611347	A	19990309	BR 1996-11347	19961022
	JP 11514528	T2	19991214	JP 1996-517759	19961022
PRAI	DK 1995-1233		19951106		
	WO 1996-DK443		19961022		

L10 ANSWER 23 OF 32 USPATFULL

AB A method of catalyzing in vitro reactions using seeds containing enhanced amounts of enzymes is disclosed. The method involves adding transgenic, non-wild type seeds, preferably in a ground form, to a reaction mixture and allowing the enzymes in the seeds to increase the rate of reaction. By directly adding the seeds to the reaction mixture the method provides a solution to the expensive and problematic process of extracting and purifying the enzyme. Methods of treatment are also provided whereby a subject lacking a sufficient supply of an enzyme is administered the enzyme in the form of seeds containing enhanced

amounts

of the enzyme.

AN 96:70613 USPATFULL

TI Production of enzymes in seeds and their use

IN van Ooijen, Albert J. J., Voorburg, Netherlands

Rietveld, Krijn, Vlaardingen, Netherlands

Hoekema, Andreas, Oegstgeest, Netherlands

Pen, Jan, Leiden, Netherlands

Sijmons, Peter C., Amsterdam, Netherlands

Verwoerd, Teunis C., Leiden, Netherlands

Quax, Wilhemus J., Voorschoten, Netherlands

PA Mogen International, Leiden, Netherlands (non-U.S. corporation)

Gist-Brocades, Delft, Netherlands (non-U.S. corporation)

PI US 5543576 19960806

AI US 1993-146422 19931102 (8)

RLI Continuation-in-part of Ser. No. US 1991-756994, filed on 11 Sep 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-498561, filed on 23 Mar 1990, now abandoned

PRAI EP 1991-200688 19910325
DT Utility
EXNAM Primary Examiner: Fox, David T.; Assistant Examiner: Rories, Charles
LREP Morrison & Foerster LLP
CLMN Number of Claims: 15
ECL Exemplary Claim: 1
DRWN 16 Drawing Figure(s); 19 Drawing Page(s)
LN.CNT 1909
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 24 OF 32 CAPLUS COPYRIGHT 2000 ACS

AB An enzyme feed additive is provided comprising a xylanase, a protease, and

optionally a .beta.-glucanase. The ratio of the units of xylanase activity per unit amt. of the feed additive to the units of .beta.-glucanase activity per same unit amt. of the feed additive is 1:0-0.25. Preferably, the xylanase is the low pI xylanase and/or the high pI xylanase obtained from Trichoderma longibrachiatum. Preferably, the protease is a mutant subtilisin comprising a substitution at the amino acid residue position equiv. to tyr+217 of Bacillus amyloliquefaciens subtilisin with leucine.

AN 1996:328577 CAPLUS

DN 125:9473

TI An enzyme feed additive and animal feed including it

IN Bedford, Michael Richard; Morgan, Andrew John; Clarkson, Kathleen; Schulze, Hagen Klaus

PA Finnfeeds International Limited, UK; Genencor International Inc.

SO PCT Int. Appl., 50 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9605739	A1	19960229	WO 1995-EP3277	19950817
	W: AU, CA, CN, FI, JP, NO, NZ				
	US 5612055	A	19970318	US 1995-515610	19950816
	CA 2196760	AA	19960229	CA 1995-2196760	19950817
	AU 9533944	A1	19960314	AU 1995-33944	19950817
	AU 692596	B2	19980611		
	EP 704167	A1	19960403	EP 1995-112939	19950817
	R: AT, BE, CH, DE, DK, ES, FR, GB, IE, IT, LI, NL, PT, SE				
	CN 1159145	A	19970910	CN 1995-194648	19950817
	JP 10504716	T2	19980512	JP 1995-507779	19950817
	FI 9700676	A	19970218	FI 1997-676	19970218
	NO 9700745	A	19970218	NO 1997-745	19970218
PRAI	GB 1994-16841		19940819		
	WO 1995-EP3277		19950817		

L10 ANSWER 25 OF 32 WPIDS COPYRIGHT 2000 DERWENT INFORMATION LTD

AB GB 2287867 A UPAB: 19951109

Use of xylanase (I) for assisting livestock to digest protein and/or amino

acids in feed is new.

(I) is pref. included in the feed in an amt. of 0.00001-10 (esp. 0.001-0.1)g/kg. (although admin. in water or in other feeds is also possible). Partic. the feed contains 20 (pref. 30) wt.% cereal, i.e. rye, triticale, barley, oats, sorghum, rice, maize or (best) wheat

. Feeds may include a protein supplement, partic. fishmeal, meat meal or vegetable protein (e.g. soya or rapeseed meals); and also other enzymes comprising beta-glucanase, protease, alpha-amylase and/or pectin. (I) is derived from a fungus, partic. Trichoderma, Aspergillus, Humicola or Neocallimastix or a bacterium, esp. from T. longibrachiatum (See WO9206209).

USE - The method is partic. used for broiler chicken feed, but also turkey, duck, goose, pig, sheep or cow feed.

ADVANTAGE - corporation of (I) allows the . of expensive energy, protein and/or amino acid supplements in cereal-based feeds to be reduced without loss of nutritional value or the nutritional value of the feed to be increased. Partic. (I) increases the energy value of the cereal

component by 6 (pref. 10)% and the protein/amino acid value by 10 (pref. 15)%. It also improves digestion of fat and oil supplements. Dwg.0/0

AN 1995-338866 [44] WPIDS

DNC C1995-149288

TI Increasing digestibility of proteins and aminoacid(s) in **animal feed** - with xylanase, partic. added to cereal based feeds, improves nutritional value and allows redn. in amt. of supplements.

DC D13 D16

IN BEDFORD, M R; MORGAN, A J

PA (FINN-N) FINNFEEDS INT LTD

CYC 3

PI GB 2287867 A 19951004 (199544)* 34p

AU 9516147 A 19951012 (199548)

CA 2145961 A 19951001 (199605)

AU 683720 B 19971120 (199804)

ADT GB 2287867 A GB 1995-6173 19950327; AU 9516147 A AU 1995-16147 19950329; CA 2145961 A CA 1995-2145961 19950330; AU 683720 B AU 1995-16147 19950329

FDT AU 683720 B Previous Publ. AU 9516147

PRAI GB 1994-6317 19940330

L10 ANSWER 26 OF 32 NTIS COPYRIGHT 2000 NTIS

AB Canola seed contains mucilage, a starch-like compound which is poorly digested by monogastric animals. The development of a low-mucilage (low-M)

strain of canola (derived from Candle) allowed the comparison of the effect of the canola meal (CM) from this strain with that of Candle, a regular cultivar, on the gains, feed efficiency and nutrient

digestibility

of growing pigs. The effect of the carbohydrate-digesting enzyme beta-glucanase was also tested to see if it would improve feed

utilization

and mucilage breakdown in the digestive system. Twelve barley:Wheat (2:1) diets were formulated to contain 0%, 6% and 12% each of CM with and without the addition of the enzyme source. Seventy-two crossbred barrows, mainly the progeny of Landrace-Yorkshire crossbred sows and Lacombe

boars,

were randomly allotted to test diets and fed according to a controlled feeding schedule through the liveweight range of 23-57 kg. Pig weights

and

feed intakes were measured weekly.

AN 1991(15):1484 NTIS Order Number: MIC-91-01749/XAD

TI Nutritional evaluation of low-mucilage canola meal: Technical/final report.

CS Agriculture Development Fund (Sask.). Regina (Canada).

NR MIC-91-01749/XAD

18 p. NTIS Prices: PC E07/MF E01

PD 1990

LA English CY Canada

OS GRA&I9115

L10 ANSWER 27 OF 32 USPATFULL

AB A method for the saccharification of a cellulosic material comprises the

steps of culturing a microorganism of *Acremonium cellulolyticus* in a medium containing carbon sources and nitrogen sources, collecting a cellulolytic enzyme from the resultant culture broth, and causing the cellulolytic enzyme to act on the cellulosic material.

AN 90:71684 USPATFULL

TI Method for production of cellulolytic enzymes and method for saccharification of cellulosic materials therewith

IN Yamanobe, Takashi, Ibaraki, Japan
Mitsubishi, Yasuhiro, Ibaraki, Japan
Takasaki, Yoshiyuki, Chiba, Japan
PA Agency of Industrial Science & Technology, Tokyo, Japan (non-U.S.
government)
Ministry of International Trade & Industry, Tokyo, Japan (non-U.S.
government)
PI US 4956291 19900911
AI US 1987-11043 19870205 (7)
DCD 20021231
RLI Continuation of Ser. No. US 1985-720416, filed on 5 Apr 1985, now
patented, Pat. No. US 4742005
PRAI JP 1985-581 19850107
JP 1985-3490 19850111
DT Utility
EXNAM Primary Examiner: Tarcza, John E.
LREP Oblon, Spivak, McClelland, Maier & Neustadt
CLMN Number of Claims: 1
ECL Exemplary Claim: 1
DRWN 3 Drawing Figure(s); 1 Drawing Page(s)
LN.CNT 646
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 28 OF 32 USPATFULL

AB A high pressure conditioning system apparatus and control network. A
direct fired steam generator supplies a mixture of super-heated steam
and oxygen-deficient non-condensable gases to a pressurized conditioner
constructed for heating, moisturizing, and conditioning matter
including
cereals, grains, beans, full fat **soybean**, barley, and seeds
for a selected period of time. The high pressure conditioner is adapted
for homogeneous interaction of the direct fired steam, non-condensable
gases and the matter to be conditioned. A pressurized resting chamber
is
used statically steam the conditioned matter. A myriad of chemical
changes are advantageously induced by the utilization of high
pressures,
controlled time, temperature, direct fired steam, moisture content, and
the homogeneous interaction thereof. The desirable chemical changes
accomplished by the high pressure conditioner include partial
denaturization of protein, eliminating or reduction of harmful enzymes
and microorganisms, and insolubilizing certain polysaccharides
encapsulating the starch in the grains. Such desirable chemical changes
lead to better nutritive value of the feed produced. A dryer may also
be
disposed in flow communication with the system for drying and cooling
and rendering stable the conditioned matter for subsequent handling.

AN 90:14303 USPATFULL

TI High pressure conditioning system

IN White, Richard L., Dallas, TX, United States

Diven, Richard H., Dallas, TX, United States

Bleke, James H., Wolcottville, IN, United States

PA VE Holding Corp., Arlington, TX, United States (U.S. corporation)

PI US 4903414 19900227

AI US 1988-224433 19880725 (7)

DT Utility

EXNAM Primary Examiner: Bennet, Henry A.

LREP Johnson & Gibbs

CLMN Number of Claims: 36

ECL Exemplary Claim: 1

DRWN 4 Drawing Figure(s); 3 Drawing Page(s)

LN.CNT 939

L10 ANSWER 29 OF 32 USPATFULL

AB Breakfast cereals are sweetened by treating cereal grains or at least
one cereal grain fraction such as bran, with enzymes comprising

glucoamylase and glucose isomerase to produce fructose while retaining cereal particle discreteness or integrity. Enzymatic treatment with alpha-amylase may be initiated prior to, during, or after cooking. The enzymatically treated, cooked cereal grains are formed into breakfast cereal shapes and the enzymes are inactivated to provide a shelf-stable cereal product. The cereal products exhibit a sweet, pleasing complex-honey-like taste and aroma. Producing fructose provides a greater level of sweetness for a given amount of starch conversion into low molecular weight reducing sugars such as mono- and di-saccharides. In achieving a given level of sweetness, more starch or high molecular weight dextrans may be retained for their matrix forming ability or for improved machineability of the enzymatically treated cereal grains into breakfast cereal shapes. The naturally sweetened cereal products of the present invention may be in shredded, flaked, ground, or extruded form.

AN 89:67285 USPATFULL
TI Method for making cereal products naturally sweetened with fructose
IN Maselli, John A., Winston-Salem, NC, United States
Neidleman, Saul L., Oakland, CA, United States
Antrim, Richard L., Sparta, NJ, United States
Johnson, Richard A., Clinton, IA, United States
PA Nabisco/Cetus Food Biotechnology Research Partnership, Emeryville, CA, United States (U.S. corporation)
PI US 4857339 19890815
AI US 1987-101561 19870928 (7)
DT Utility
EXNAM Primary Examiner: Czaja, Donald E.; Assistant Examiner: Paden, Carolyn
LREP Kornutik, Richard; Halluin, Albert P.
CLMN Number of Claims: 44
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1717
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 30 OF 32 USPATFULL
AB A method for the saccharification of a cellulosic material comprises the steps of culturing a microorganism of Acremonium cellulolyticus in a medium containing carbon sources and nitrogen sources, collecting a cellulolytic enzyme from the resultant culture broth, and causing the cellulolytic enzyme to act on the cellulosic material.
AN 88:27709 USPATFULL
TI Method for production of cellulolytic enzymes and method for saccharification of cellulosic materials therewith
IN Yamanobe, Takashi, Ibaraki, Japan
Mitsuishi, Yasushi, Ibaraki, Japan
Takasaki, Yoshiyuki, Matsudo, Japan
PA Agency of Industrial Science & Technology, Ministry of International Trade & Industry, Tokyo, Japan (non-U.S. corporation)
PI US 4742005 19880503
AI US 1985-720416 19850405 (6)
PRAI JP 1985-581 19850107
JP 1985-3490 19850111
DT Utility
EXNAM Primary Examiner: Tarcza, John E.
LREP Oblon, Fisher, Spivak, McClelland & Maier
CLMN Number of Claims: 3
ECL Exemplary Claim: 1
DRWN 4 Drawing Figure(s); 1 Drawing Page(s)
LN.CNT 658
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 31 OF 32 USPATFULL
AB A process for producing a stevioside derivative, which comprises reacting stevioside with a .beta.-1,3- or .beta.-1,4-glycosyl sugar compound in aqueous solution or aqueous suspension in the presence of a microorganism or enzyme having .beta.-1,3- or .beta.1,4-glycosyl

transferring vity thereby to form .beta.-1 or
.beta.-1,4-glycosyl
stevioside.
AN 86:29737 USPATFULL
TI Process for production of .beta.-glycosyl stevioside derivatives
IN Nishihashi, Hideji, Urawa, Japan
Matsubayashi, Tadao, Chiba, Japan
Katabami, Tadashi, Urawa, Japan
Matsuda, Ken-ichi, Tokyo, Japan
PA Dainippon Ink and Chemicals, Inc., Tokyo, Japan (non-U.S. corporation)
Dic Fine Chemicals, Inc., Tokyo, Japan (non-U.S. corporation)
PI US 4590160 19860520
AI US 1983-469947 19830225 (6)
PRAI JP 1982-31479 19820227
DT Utility
EXNAM Primary Examiner: Wiseman, Thomas G.; Assistant Examiner: Weimar,
Elizabeth C.
LREP Sherman & Shalloway
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 8 Drawing Figure(s); 5 Drawing Page(s)
LN.CNT 1623
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 32 OF 32 USPATFULL
AB A chitin-protein complex is prepared from chitin-containing biological
waste material such as crustacean shells. The complex is different from
both chitin and chitosan, and has useful nematostatic and nematocidal
activity for agricultural and horticultural applications by admixing
nematocidally effective amounts with a plant growth medium. The complex
also provides a source of nitrogen in slow-release form, making it
particularly suitable for combination with fertilizers, soil
conditioners, etc.
AN 85:48965 USPATFULL
TI Nematocidally active chitin-protein complex
IN McCandliss, Russell J., Germantown, MD, United States
Eastwood, Barbara J., Round Hill, VA, United States
Milch, Robert A., Baltimore, MD, United States
PA IGI Biotechnology, Inc., Columbia, MD, United States (U.S. corporation)
PI US 4536207 19850820
AI US 1983-517312 19830726 (6)
DT Utility
EXNAM Primary Examiner: Schain, Howard E.
LREP Haight & Associates
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 11 Drawing Figure(s); 13 Drawing Page(s)
LN.CNT 919
CAS INDEXING IS AVAILABLE FOR THIS PATENT.